

1.P566.35

1 1. (amended) An elongated cutting tool intended to plunge cut a blind form in a bone using a
2 plurality of teeth (30, 130) arranged on the tool, at least one of the teeth being an undercut tooth
3 (30, 130) having a cutting edge (470, 570), the undercut tooth (30, 130) having a profile defined
4 substantially along a primary relief angle (480, 580) measured from a vertical reference plane
5 (477, 577) passing through the cutting edge (470, 570) and by a positive rake angle (485, 585)
6 measured from a horizontal reference plane (472, 572) passing through the cutting edge (470,
7 570), wherein the undercut tooth has a ~~parabolic~~, non-circular relief (490, 590) having an apex
8 area which is parabolic in shape, along which bone chips are guided substantially away from the
9 bone being cut, thereby avoiding capturing debris in the teeth and, consequently, avoiding
10 overstressing the bone during cutting.

1 2. (original) The tool of claim 1, wherein the tool is a broach.

1 3. (original) The tool of claim 1, wherein the tool is a rasp.

1 4. (original) The tool of claim 3, wherein the teeth (130, 140) are arranged generally in a
2 diamond shape pattern oriented at an angle (160) in relationship to a drive axis (150).

1 5. (original) The tool of claim 4, wherein the angle is formed in a helix in which the teeth are
2 disposed about the tool in a helical pattern.

1 6. (original) The tool of claim 5, wherein the teeth are arranged so as to progressively increase in
2 size along the helix.

1 7. (original) The tool of claim 1, wherein the tool includes at least one chip breaker (40, 140).

1 8. (original) The tool of claim 2, wherein the tool includes at least one chip breaker (40, 140).

1 9. (original) The tool of claim 1, wherein a handle interface (220) is provided for attachment to a
2 modular handle interface.